



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5 : A61K 39/00, 39/395, 48/00 C07K 3/12, 15/06, 15/28 C12N 15/12, C12P 19/34 C12Q 1/68, G01N 33/53, 37/00		A1	(11) International Publication Number: WO 94/09820 (43) International Publication Date: 11 May 1994 (11.05.94)
(21) International Application Number: PCT/US93/10624 (22) International Filing Date: 5 November 1993 (05.11.93) (30) Priority data: 07/973,337 5 November 1992 (05.11.92) US			
(60) Parent Application or Grant (63) Related by Continuation US 07/973,337 (CIP)			
(71) Applicant (for all designated States except US): SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH [US/US]; 1275 York Avenue, New York, NY 10021 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only) : ISRAELI, Ron, S. [US/US]; 950 49th Street, Apartment 6K, Brooklyn, NY 11219 (US). HESTON, Warren, D., W. [US/US]; 400 East 85th Street, Apartment 18B, New York, NY 10028 (US). FAIR, William, R. [US/US]; 400 East 70th Street, Apartment 3501, New York, NY 10021 (US).			
(74) Agent: COBERT, Robert, J.; Cooper & Dunham, 30 Rockefeller Plaza, New York, NY 10112 (US).			
(81) Designated States: CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).			
Published <i>With international search report.</i>			

(54) Title: PROSTATE-SPECIFIC MEMBRANE ANTIGEN**(57) Abstract**

This invention provides for an isolated mammalian nucleic acid molecule encoding a mammalian prostate-specific membrane antigen. This invention provides for nucleic acid probes which specifically hybridize with the nucleic acid molecule encoding said antigen. This invention provides for a method of detecting hematogenous micrometastatic tumor cells of a subject performing the polymerase chain reaction (PCR) on samples of the subject using primers of said antigen. This invention provides for methods to identify ligands which bind to said antigen. This invention provides for the prevention and/or treatment of prostate tumor growth.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgyzstan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TC	Togo
CZ	Czech Republic	MC	Monaco	TJ	Tajikistan
DE	Germany	MD	Republic of Moldova	TT	Trinidad and Tobago
DK	Denmark	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	US	United States of America
FI	Finland	MN	Mongolia	UZ	Uzbekistan
FR	France			VN	Viet Nam
GA	Gabon				